

Date: Wed, 31 Aug 94 04:30:17 PDT
From: Ham-Digital Mailing List and Newsgroup <ham-digital@ucsd.edu>
Errors-To: Ham-Digital-Errors@UCSD.Edu
Reply-To: Ham-Digital@UCSD.Edu
Precedence: Bulk
Subject: Ham-Digital Digest V94 #290
To: Ham-Digital

Ham-Digital Digest Wed, 31 Aug 94 Volume 94 : Issue 290

Today's Topics:

 1200/9600 Packet TNC
 9600 baud using Kenwood TM201 & TM401 (2 msgs)
 HF Packet (Mac vs PC) (2 msgs)
 MSYS 1.17 Fwd Flood vs Routing?
 Packet and Internet?
 Recognize this PROMer???
 RS232 --> FT990 FSK ?
 TAPR Library (2 msgs)
 Which DSP kit to buy?

Send Replies or notes for publication to: <Ham-Digital@UCSD.Edu>
Send subscription requests to: <Ham-Digital-REQUEST@UCSD.Edu>
Problems you can't solve otherwise to brian@ucsd.edu.

Archives of past issues of the Ham-Digital Digest are available
(by FTP only) from UCSD.Edu in directory "mailarchives/ham-digital".

We trust that readers are intelligent enough to realize that all text
herein consists of personal comments and does not represent the official
policies or positions of any party. Your mileage may vary. So there.

Date: Tue, 30 Aug 1994 02:23:55 GMT
From: ihnp4.ucsd.edu!usc!howland.reston.ans.net!gatech!newsxfer.itd.umich.edu!
jobone!lynx.unm.edu!mack.rt66.com!kb5rtk.einet.com!kb5rtk@network.ucsd.edu
Subject: 1200/9600 Packet TNC
To: ham-digital@ucsd.edu

Bob,

>For radios I have sucessfully used:
>Icom IC-290 (the first radio I modified)
>Icom IC-22S (uses diode matrix synthsizer in 15 kHz steps. Designed for
>146-148, tho usually goes to 145.35 or so OK.)
>GE MVP (high band VHF - xtal controlled, easy to modify)

>I currently use the GE on the local 2M packet repeater, as I hope one day to
>get the IC-290 back on SSB. The IC-22S is probably going to get modified to
>20 kHz channel spacing and to cover the whole 2M band. Then it will
>probably go into my (ever evolving) portable packet station.

>Hope that gives some insight on 9600 operations.

The new Kenwood TM-451A is really sweet for 440 9600 baud!

Cliff

Cliff Nail

US - 227 USWA!!!!

KB5RTK - Ham radio on the water There is no faster Ham on the water!

Internet - kb5rtk@rt66.com

Ham internet 44.30.0.54 (KB5RTK on 145.01 MHz - Albuquerque NM)

Date: 30 Aug 94 07:27:00 GMT

From: elroy.jpl.nasa.gov!swrinde!cs.utexas.edu!convex!news.duke.edu!news-
feed-1.peachnet.edu!emory!wa4mei!totrbbs!steve.diggs@ames.arpa

Subject: 9600 baud using Kenwood TM201 & TM401

To: ham-digital@ucsd.edu

-> From: Tom WB7ASR <tom_boza@ccm.hf.intel.com>

-> Newsgroups:

-> rec.radio.amateur.equipment,rec.radio.amateur.digital.misc Subject:

-> 9600 baud using Kenwood TM201 & TM401

-> Date: Mon, 29 Aug 94 08:55:17 PDT

-> Message-ID: <33t0gk\$rd9@chnews.intel.com>

->

-> Does anyone have 9600 baud mod information for the Kenwood TM201

-> (2meters) and TM401 (70cm) FM radios? Please post here or send

-> direct.

->

-> Thanks, 73s

-> Tom WB7ASR...

Tom,

I have been trying to get the TM401 to work reliably at 9600 baud with 6 months, and I can tell you from direct experience that it is NOT a good candidate for modification. The problem is isolated to the transmit interface: the TM401 uses a PLL circuit that is close coupled to the VCO. In the normal approach to 9600 interface, you insert the 9600 audio directly at the Varactor in the VCO and everything works fine. In this case, the PLL senses a frequency drift after all but the shortest of

packets, and commences to cancel the drift. The net effect is to cause short packets to transmit OK but long packets are almost always corrupt. FYI, the receive side is great, as the TM401 uses the CF455E discriminator, which gives excellent receive bandwidth in the IF.

I haven't given up completely. James Miller, G3RUH, has agreed to look at the schematics of this rig with ideas on ANY POSSIBLE way to make the rig work. Possibilities are to lengthen the RC time constant in the PLL's feedback circuit, or perhaps modulate the master reference oscillator of the PLL, along with the Varactor. (To prevent the PLL from detecting a frequency drift) James just sent me a confirming note on 8/28 acknowledging receipt of the info package, and his intent to start on the project in the near future.

Finally, if you just insist on aggravating yourself, <grin> I will send the interface points in a follow up email. Also, I'll be happy to let you know what James Miller says on best ideas on the TM401 interface. BTW, the TM201 will work the same way, I'm sure.

Regards,
Steve Diggs, President
East Atlanta LAN

Top Of The Rock BBS - Lilburn, GA
UUCP: tottribbs.atl.ga.us
Phone: +1 404 921 8687

SYSOP: Steve Diggs
Snailmail: 4181 Wash Lee Ct.
Lilburn, GA 30247-7407

Date: Tue, 30 Aug 94 10:10:36 PDT
From: ihnp4.ucsd.edu!dog.ee.lbl.gov!agate!howland.reston.ans.net!gatech!news-feed-1.peachnet.edu!news.duke.edu!eff!news.kei.com!ssd.intel.com!chnews!news@network.ucsd.edu
Subject: 9600 baud using Kenwood TM201 & TM401
To: ham-digital@ucsd.edu

Steve,

I have the 201/401 pair sitting in my storage cabinet collecting dust and I would like to put them to use. I would appreciate if you would eMail me or post the mod information that you currently have. I would like to at least do the receive mod so I can monitor the 9600 baud activity around the valley.

Please keep me on your eMail list, if and when you resolve the transmit issue. I will do the same on this end, if I find out any other information.

Thanks & 73s,

Tom WB7ASR

tom_boza@ccm.hf.intel.com

In article <1941.18.uupcb@totrbbs.radio.org>, <steve.diggs@totrbbs.radio.org> writes:

> Path:

chnews!ennews!asuvax!cs.utexas.edu!convex!news.duke.edu!news-feed-1.peachnet.edu!emory!wa4mei!totrbbs!steve.diggs

> From: steve.diggs@totrbbs.radio.org (Steve Diggs)

> Newsgroups: rec.radio.amateur.digital.misc

> Subject: 9600 baud using Kenwood TM201 & TM401

> Message-ID: <1941.18.uupcb@totrbbs.radio.org>

> Date: 30 Aug 94 07:27:00 GMT

> Distribution: world

> Organization: Top Of The Rock BBS Atl, GA 404-921-8687

> Reply-To: steve.diggs@totrbbs.radio.org (Steve Diggs)

> References: <33t0gk\$rd9@chnews.intel.com>

> Lines: 50

>

> -> From: Tom WB7ASR <tom_boza@ccm.hf.intel.com>

> -> Newsgroups:

> -> rec.radio.amateur.equipment,rec.radio.amateur.digital.misc Subject:

> -> 9600 baud using Kenwood TM201 & TM401

> -> Date: Mon, 29 Aug 94 08:55:17 PDT

> -> Message-ID: <33t0gk\$rd9@chnews.intel.com>

> ->

> -> Does anyone have 9600 baud mod information for the Kenwood TM201

> -> (2meters) and TM401 (70cm) FM radios? Please post here or send

> -> direct.

> ->

> -> Thanks, 73s

> -> Tom WB7ASR...

>

> Tom,

>

> I have been trying to get the TM401 to work reliably at 9600 baud with 6

> months, and I can tell you from direct experience that it is NOT a good

> candidate for modification. The problem is isolated to the transmit

> interface: the TM401 uses a PLL circuit that is close coupled to the

> VCO. In the normal approach to 9600 interface, you insert the 9600 audio

> directly at the Varactor in the VCO and everything works fine. In this

> case, the PLL senses a frequency drift after all but the shortest of

> packets, and commences to cancel the drift. The net effect is to cause

> short packets to transmit OK but long packets are almost always corrupt.

> FYI, the receive side is great, as the TM401 uses the CF455E

> discriminator, which gives excellent receive bandwidth in the IF.

>

Unfortunately, MFJ doesn't advertise it very much. However, they've been shipping it for over a year.

AH6IX and I wrote the program for MFJ.

--

Tom Taylor
aa6br

Date: 30 Aug 1994 13:28:34 GMT
From: ihnp4.ucsd.edu!dog.ee.lbl.gov!agate!howland.reston.ans.net!cs.utexas.edu!
chpc.utexas.edu!news.utdallas.edu!corpgate!bcarh8ac.bnr.ca!bcarh8ab.bnr.ca!
Peter.Dodd@network.ucsd.edu
Subject: HF Packet (Mac vs PC)
To: ham-digital@ucsd.edu

In article <tom_taylor-2908941648010001@tom-taylor.taligent.com>
tom_taylor@taligent.com (Tom Taylor) writes:

> MFJ's MacMultiCom 1.0 for the 1278 DOES support 16 level grayscale FAX
> reception and transmission. It also supports color SSTV in a number
> of different popular formats. The program takes advantage of System 7
> features, but will still work on a MacPlus (of course you only get B&W
> pictures then). MacMultiCom supports all of the other 1278 modes, too.
>
> Unfortunately, MFJ doesn't advertise it very much. However, they've been
> shipping it for over a year.
>
> AH6IX and I wrote the program for MFJ.
>
And I've been using it for the better part of last year. Works well
with
both an LC and PB170. I especially like the separate windows for each
mode,
and easy switching from one to the other. I could generate a wishlist
for
the program, and wonder if Tom or MFJ are planning subsequent versions?

Peter Dodd VE3IPD
Bell Northern Research
Ottawa Canada
(My opinions not BNR's)

Date: Tue, 30 Aug 1994 11:33:34 JST
From: pa.dec.com!tanuki.twics.com!jwt@decwrl.dec.com
Subject: MSYS 1.17 Fwd Flood vs Routing?
To: ham-digital@ucsd.edu

How can I make distinctions in my MSYS forwarding files between the use of a word for a flood routing pattern (@ ASIA) and as part of a hierarchical address (HL1XXX @ HL1YYY.KOR.ASIA) ?

Is there an MSYS internet mailing list?

Thanks & 73, Jim 7J1AJH/AI8A jwt@twics.co.jp
packet: 7J1AJH @ 7J1YAA.10.JNET1.JPN.AS
www: file://twics.co.jp/html/hamradio.html

Date: Tue, 30 Aug 94 01:42:58 -0500
From: news.delphi.com!usenet@uunet.uu.net
Subject: Packet and Internet?
To: ham-digital@ucsd.edu

I don't know anything about the Packet world but I am wondering if it is common (possible) to access the internet (mail? usenet? irc?) with a packet rig?

William Como - VIMX@delphi.com -N2QMU
P.S. What is there on packet?

Date: 30 Aug 1994 03:19:12 GMT
From: ihnp4.ucsd.edu!usc!howland.reston.ans.net!gatech!news-feed-1.peachnet.edu!hobbes.cc.uga.edu!aisun3.ai.uga.edu!mcovingt@network.ucsd.edu
Subject: Recognize this PROMer???
To: ham-digital@ucsd.edu

At a swap meet I recently bought (very cheaply) a device that is said to be an EPROM programmer, and which consists of a 2 x 5-inch board containing a 28-pin socket, a 68HC705, a ROM, and a few other chips one of which is labeled "Altera module."

Coming out one end is a flat cable with a 24-pin DIP plug, obviously for EPROM emulation or something like that.

But the fellow who sold it to me said that it could be connected to the serial port of a PC using a few of the wires in the 24-conductor cable, and the software for programming EPROMs was then in the firmware on the board, with the PC serving only as a terminal.

Obviously, the power supply is missing and I can't do anything without knowing the pinout. Does anyone recognize this product?

--

< Michael A. Covington, Assc Rsch Scientist, Artificial Intelligence Center >
< The University of Georgia, Athens, GA 30602-7415 USA mcovingt@ai.uga.edu >
< Unless specifically indicated, I am not speaking for the University. > <><
> "To 'see through' all things is the same as not to see them." -C.S. Lewis <

Date: Mon, 29 Aug 1994 19:03:30 GMT
From: equalizer!timbuk.cray.com!cdsmail!uchinews!kimbark!khopper@network.ucsd.edu
Subject: RS232 --> FT990 FSK ?
To: ham-digital@ucsd.edu

I need to interface RS232 from a TNC to my FT-990.
There is no info on the FT-990 FSK input signal
levels - but those who know say it is TTL.

Is there a good universal way to interface RS232
to TTL ? how about an opto-isolator ?

TNX,

Ken Hopper,
November 9 Vivid Video
HF - CW, PacTOR, RTTY, SSTV
k-hopper@uchicago.edu

```

|-----|
| o o \_/_/ o o |
| o o @ o o |
|-----|

```

Date: Tue, 30 Aug 1994 02:27:54 GMT
From: ihnp4.ucsd.edu!usc!howland.reston.ans.net!math.ohio-state.edu!cs.utexas.edu!
chpc.utexas.edu!news.utdallas.edu!feenix.metronet.com!usenet@network.ucsd.edu
Subject: TAPR Library
To: ham-digital@ucsd.edu

In message <mmunster-2908941347140001@mmunster-mac.qualcomm.com> - mmunster@qualcomm.com (Marvin J. Munster) writes:

>Does anyone know the FTP address for TAPR? The one I have doesn't seem to
>be working.

>

>Marvin. WB6PKK

>

Marvin, when you find it, please post it. i would like to get
to the ftp server also.

Neal McEwen K5RW, Dallas

Date: 30 Aug 1994 06:52:21 GMT
From: ihnp4.ucsd.edu!library.ucla.edu!europa.eng.gtefsd.com!
howland.reston.ans.net!cs.utexas.edu!news.unt.edu!tcet.unt.edu!
gjones@network.ucsd.edu
Subject: TAPR Library
To: ham-digital@ucsd.edu

Marvin J. Munster (mmunster@qualcomm.com) wrote:
: Does anyone know the FTP address for TAPR? The one I have doesn't seem to
: be working.

Here is the most recent information. TAPR.ORG will be changing
locations the end of the week, so some outages might result.

In addition, I just found out that the ftp site we use had an 'act of god'
failure last week and Bill Beech is working on reestablishing the
system. I do not have a current report, but it should be available now
or very soon.

Cheers - Greg

'file-request@tapr.org' can also be used to access TAPR's file system.
The electronic issue of the PSR (Packet Status Register) is now being made
available via the server as a file. If your club editor is looking
for packet articles and information to republish this is a great source.
To get more information, send Internet mail to 'file-request@tapr.org'
and include in the message of the body the command 'help'.

The TAPR Software Library is now available via anonymous FTP. You can
access the library by ftp access to 'ftp.hereford.ampr.org' in the directory
pub/hamradio/tapr. Login in as 'anonymous', with a password of
'your_account@internet_address'.

Tucson Amateur Packet Radio
8987-309 E Tanque Verde Rd #337 * Tucson, Az * 85749-9399 * 817-383-0000

Date: Mon, 29 Aug 1994 20:35:27 GMT
From: ihnp4.ucsd.edu!sdd.hp.com!math.ohio-state.edu!sol.ctr.columbia.edu!
usenet.ucs.indiana.edu!indyvax.iupui.edu!jsissom.dmed.iupui.edu!
JAY@network.ucsd.edu
Subject: Which DSP kit to buy?
To: ham-digital@ucsd.edu

>There are two kits, the 'C26 DSK which is based on the TMS320C26 processor
>and the 'C50 DSK which is based on the TMS320C50 processor.

>You could say that the 'C50 is the next generation up from the 'C26
>in that it has more memory and is faster. Both are fixed point (as
>opposed to floating point) processors and will do just about any
>DSP trick that you want. Both chips have built-in memory.

>The boards are small, approximately 2.5 X 4 inches and have the
>necessary A/D and D/A chip (TLC3240).

>There is an analog input and output (rca jacks) and a serial connector
>(9 pin RS232). You have to supply a 9VAC plug-in-the-wall (Radio
>Shack) power supply.

>TI supplies a simple Assembler and a Debugger. They also throw in
>a loader and a couple of sample programs. No, there is not a
>'C' compiler :-)

>You connect the 9VAC (notice AC) power supply, attach a cable from
>the board to your serial port on your PC and then you can download
>or debug programs.

>There are quite a few Ham type programs for the 'C26 DSK on the
>internet. 'C26 programs can be converted to 'C50 programs with
>some effort.

>The cost is \$99.00. I am not sure what the availability is at
>this time (Wyle, Marshall, etc)

I received one from Arrow Electronics last week. It took a little less than a
week to get, so availability is very good.

Jay

>If any more questions, Email me.

>Smitty, NA5K

>--

>Henry Smith (hbs@crl.com)

Date: 30 Aug 1994 07:01:09 -0700
From: nntp.crl.com!crl3.crl.com!not-for-mail@decwrl.dec.com
To: ham-digital@ucsd.edu

References <giKrlv200jWR4u8Xse@andrew.cmu.edu>, <33jn2v\$icj@crl3.crl.com>,
<JAY.53.2E62468F@medicine.dmed.iupui.edu>
Subject : Re: Which DSP kit to buy?

Jay Sissom (JAY@medicine.dmed.iupui.edu) wrote:
: I received one from Arrow Electronics last week. It took a little less than a
: week to get, so availablility is very good.

: Jay

Is there an 800 number for Arrow or should they call their local Arrow
number?

Thanks,

Smitty, NA5K

--

Henry Smith (hbs@crl.com)

End of Ham-Digital Digest V94 #290
